GHS

Printing date 03.15.2016

Revision: 03.15.2016

Trada namai 1	entifier			
· I laue name.	Fouch n' Seal Slow Rise 120 Part A RF120			
· 1.2 Relevant i	r: EHS3431 – SDS / A dentified uses of the substance or mixture and uses advised against vant information available.			
 Application of 	the substance / the mixture Polyurethane-sealant			
 1.3 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: Convenience Products, division of Clayton Corp. 866 Horan Drive Fenton, MO 63026-2416 Phone: 636-349-5855 				
ChemTel Inc.	y telephone number: , +1 (813)248-0585			
2 Hazards ide	ntification			
•	hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.			
Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3				
Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3	 H373 May cause damage to organs through prolonged or repeated exposure. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H229 Pressurised container: May burst if heated. 			
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	(Contd. of page 1
X Xi; Irritant	
	Instation to avon meanimeters and the
R36/37/38:	Irritating to eyes, respiratory system and skin.
	oncerning particular hazards for human and environment:
	s to be labelled due to the calculation procedure of the "General Classification guideline for
	the EU" in the latest valid version.
	surized container.
Classification	
	tion is according to the latest editions of the EU-lists, and extended by company and
literature data.	tion is in appared and with the latest additions of international substances lists, and is
	tion is in accordance with the latest editions of international substances lists, and is
supplemented i	by information from technical literature and by information provided by the company.
2.2 Label elem	
	ording to Regulation (EC) No 1272/2008
	classified and labelled according to the CLP regulation.
Hazard pictog	rams
$\land \land$	
$\langle \rangle \langle \rangle$	
\vee \vee	
GHS07 GHS08	
Signal word Da	anger
-	-
	nining components of labelling:
	nediisocyanate,isomeres and homologues
4,4'-methyleneo	diphenyl diisocyanate
Hazard statem	
H229 Pressuris	ed container: May burst if heated.
H332 Harmful i	
H315 Causes s	kin irritation.
H319 Causes s	erious eye irritation.
H334 May caus	e allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May caus	
H335 May caus	e an allergic skin reaction.
	e an allergic skin reaction. e respiratory irritation.
	se respiratory irritation. se damage to organs through prolonged or repeated exposure.
H373 May caus Precautionary	se respiratory irritation. se damage to organs through prolonged or repeated exposure.
Precautionary P101	se respiratory irritation. Se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand.
Precautionary P101 P102	se respiratory irritation. se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children.
Precautionary P101 P102 P103	se respiratory irritation. se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
Precautionary P101 P102 P103 P285	se respiratory irritation. se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. In case of inadequate ventilation wear respiratory protection.
Precautionary P101 P102 P103	se respiratory irritation. se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. In case of inadequate ventilation wear respiratory protection. Wear protective gloves / eye protection.
Precautionary P101 P102 P103 P285 P280 P260	se respiratory irritation. se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. In case of inadequate ventilation wear respiratory protection. Wear protective gloves / eye protection. Do not breathe mist/vapours/spray.
Precautionary P101 P102 P103 P285 P280 P260	se respiratory irritation. se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. In case of inadequate ventilation wear respiratory protection. Wear protective gloves / eye protection. Do not breathe mist/vapours/spray. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
Precautionary P101 P102 P103 P285 P280 P260 P305+P351+P3	se respiratory irritation. se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. In case of inadequate ventilation wear respiratory protection. Wear protective gloves / eye protection. Do not breathe mist/vapours/spray.
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Precautionary P101 P102 P103 P285 P280 P260 P305+P351+P3 P342+P311 P333+P313 P337+P313	 se respiratory irritation. se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. In case of inadequate ventilation wear respiratory protection. Wear protective gloves / eye protection. Do not breathe mist/vapours/spray. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention.
Precautionary P101 P102 P103 P285 P280 P260 P305+P351+P3 P342+P311 P333+P313	 se respiratory irritation. se damage to organs through prolonged or repeated exposure. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. In case of inadequate ventilation wear respiratory protection. Wear protective gloves / eye protection. Do not breathe mist/vapours/spray. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention.

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Printing date 03.15.2016 Revision: 03.15.2016 Trade name: Touch n' Seal Slow Rise 120 Part A RF120 (Contd. of page 2) Store in a well-ventilated place. Keep container tightly closed. P403+P233 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Additional information: Contains isocyanates. May produce an allergic reaction. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Hazard description: · WHMIS-symbols: A - Compressed gas D2A - Very toxic material causing other toxic effects · NFPA ratings (scale 0 - 4) Health = 2n Fire = 0Reactivity = 1· HMIS-ratings (scale 0 - 4) ² Health = *2 HEALTH FIRE • Fire = 0 **REACTIVITY** Reactivity = 1 · HMIS Long Term Health Hazard Substances 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues 101-68-8 4,4'-methylenediphenyl diisocyanate · 2.3 Other hazards · Results of PBT and vPvB assessment • **PBT:** Not applicable. · vPvB: Not applicable. **3** Composition/information on ingredients · 3.2 Mixtures

- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

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CAS: 9016-87-9	diphenylmethanediisocyanate isomeres and homologues Xn R20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3	>50%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	4,4'-methylenediphenyl diisocyanate Xn R20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3	25-50%
	 Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 	
CAS: 811-97-2 EINECS: 212-377-0	Norflurane	<25%

4 First aid measures

· 4.1 Description of first aid measures

· General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly. Do not pull solidified product off the skin.

If skin irritation continues, consult a doctor.

· After eye contact:

Protect unharmed eye. Rinse opened eye for several minutes under running water. Call a doctor immediately. Do not remove contact lenses if worn.

· After swallowing:

Unlikely route of exposure.

Do not induce vomiting; call for medical help immediately.

- · 4.2 Most important symptoms and effects, both acute and delayed
- Asthma attacks Headache Allergic reactions Coughing Breathing difficulty

Dizziness

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• Hazards Danger of impaired breathing.

Danger of pulmonary oedema.

Danger of convulsion.

Danger of disturbed cardiac rhythm.

Condition may deteriorate with alcohol consumption.

• 4.3 Indication of any immediate medical attention and special treatment needed

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible. If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary oedema.

Monitor circulation, possible shock treatment.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Firefighting measures

· 5.1 Extinguishing media

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: None.
- 5.2 Special hazards arising from the substance or mixture
 Danger of receptacles bursting because of high vapour pressure when heated.
 In case of fire, the following can be released:
 Nitrogen oxides (NOx)
 Hydrogen cyanide (HCN)
 Carbon monoxide (CO)
 Under certain fire conditions, traces of other toxic gases cannot be excluded.
 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.
 Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use respiratory protective device against the effects of fumes/dust/aerosol.
Remove persons from danger area.
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Protect from heat.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Allow to solidify. Pick up mechanically.
Clean the affected area carefully; suitable cleaners are:
Warm water and cleansing agent

Dispose contaminated material as waste according to item 13.

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· 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe handling Use only in well ventilated areas. Take note of emission threshold. Ensure good ventilation/exhaustion at the workplace. · Information about fire - and explosion protection: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Observe official regulations on storing packagings with pressurized containers. Store in a cool location. Provide ventilation for receptacles. · Information about storage in one common storage facility: Store away from foodstuffs. Do not store together with acids. Store away from oxidizing agents. · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. Protect from heat and direct sunlight. Store receptacle in a well ventilated area. · 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

 Ingredients 	 Ingredients with limit values that require monitoring at the workplace: 101-68-8 4,4'-methylenediphenyl diisocyanate 		
101-68-8 4,4			
PEL (USA)	Short-term value: C 0,2 mg/m ³ , C 0,02 ppm		
REL (USA)	Short-term value: C 0,2* mg/m³, C 0,02* ppm Long-term value: 0,05 mg/m³, 0,005 ppm *10-min		
	(Contd. on page 7)		

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(Contd. of page 6) 0.051 mg/m³, 0,005 ppm TLV (USA) EL (Canada) Short-term value: C 0,01 ppm Long-term value: 0,005 ppm Skin; S EV (Canada) 0.005 ppm 811-97-2 Norflurane WEEL (USA) 1000 ppm • DNELs No further relevant information available. PNECs No further relevant information available. · Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when high concentrations are present. Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. · Material of gloves Fluorocarbon rubber (Viton) The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Not suitable are gloves made of the following materials: Natural rubber, NR · Eve protection: Contact lenses should not be worn. Safety glasses Goggles recommended during refilling

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Body protection: Impervious protective clothing

· Limitation and supervision of exposure into the environment No further relevant information available.

· Risk management measures

See Section 7 for additional information. No further relevant information available.

9 Physical and chemical properties · 9.1 Information on basic physical and chemical properties

· General Information · Appearance: Form: Aerosolized liquid with compressed gas in cylinders Colour: Cream coloured · Odour: Characteristic · Odour threshold: Not determined. · pH-value: Not determined. Change in condition Not Determined. Melting point/Melting range: Not applicable, as aerosol. **Boiling point/Boiling range:** · Flash point: Not applicable, as aerosol. · Flammability (solid, gaseous): Not applicable. Auto/Self-ignition temperature: Not determined. · Decomposition temperature: Not determined. · Self-igniting: Product is not self-igniting. · Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Lower: 0.4 Vol % Not determined. Upper: · Vapour pressure at 20 °C: 5716 hPa · Density at 20 °C: 1,03 g/cm³ · Relative density Not determined. · Vapour density Not determined. · Evaporation rate Not applicable. · Solubility in / Miscibility with Not miscible or difficult to mix. water: · Partition coefficient (n-octanol/water): Not determined. · Viscosity: **Dynamic:** Not determined. (Contd. on page 9)

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(Contd. of page determined. I further relevant information available.
further relevant information available.
avoided:
ng to specifications.
and alkalis.
gh vapour pressure when heated.
xidizing agents.
cids liberates toxic gas.

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral LD50 2200 mg/kg (mouse)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful Irritant

• Sensitisation: Sensitization possible by inhalation and/or dermal contact.

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• Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: The product contains materials that are harmful to the environment.
- 12.2 Persistence and degradability The product is partially biodegradable. Significant residuals remain.
- 12.3 Bioaccumulative potential Does not accumulate in organisms.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

This statement was deduced from products with a similar structure or composition.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Contact waste processors for recycling information.

· Uncleaned packaging:

· Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

14 Transport information

- · 14.1 UN-Number
- · DOT, ADR, IMDG, IATA
- \cdot 14.2 UN proper shipping name
- · DOT, IMDG, IATA

UN3500

Chemical under pressure, n.o.s. (Fluorinated Hydrocarbon, Nitrogen) 3500 CHEMICAL UNDER PRESSURE, N.O.S. (Fluorinated Hydrocarbon, Nitrogen)

· ADR

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• 14.3 Transport hazard class(es)	(Contd. of page 1
·DOT	
Se aures	
· Class	2.2
· Label	2.2
· ADR	
	2
· Label	2.2
· IMDG, IATA	
· Class	2.2
· Label	2.2
 14.4 Packing group 	
· DOT, ADR, IMDG, IATA	Not Regulated
 14.5 Environmental hazards: 	
• Marine pollutant:	No
• 14.6 Special precautions for user	Warning: Gases.
· Danger code (Kemler): · EMS Number:	20 F-D,S-U
• 14.7 Transport in bulk according to Ann	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	120 ml
· Transport category	3
 Tunnel restriction code 	C/E
· UN "Model Regulation":	UN3500, CHEMICAL UNDER PRESSURE, N.O.S (Fluorinated Hydrocarbon, Nitrogen), 2.2

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• 15.1 Safety, • United State • SARA	, health and environmental regulations/legislation specific for the substances (USA)	ce or mixtur
Section 355	(extremely hazardous substances):	
None of the	ingredients is listed.	
Section 313	(Specific toxic chemical listings):	
9016-87-9 0	liphenylmethanediisocyanate,isomeres and homologues	
101-68-8 4	1,4'-methylenediphenyl diisocyanate	
TSCA (Toxi	c Substances Control Act):	
All ingredien	ts are listed.	
-	e 65 (California):	
	known to cause cancer:	
None of the	ingredients is listed.	
Chemicals	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemicals I	known to cause developmental toxicity:	
	ingredients is listed.	
-	ic Categories	
-	onmental Protection Agency)	
	diphenylmethanediisocyanate,isomeres and homologues	CB
	1,4'-methylenediphenyl diisocyanate	CB
•	national Agency for Research on Cancer)	
	diphenylmethanediisocyanate,isomeres and homologues	
	1,4'-methylenediphenyl diisocyanate	
•	hold Limit Value established by ACGIH)	
	ingredients is listed.	
-	National Institute for Occupational Safety and Health)	
	ingredients is listed.	
Canada		
	omestic Substances List (DSL)	
All ingredien		
	ngredient Disclosure list (limit 0.1%)	
	4'-methylenediphenyl diisocyanate	
	ngredient Disclosure list (limit 1%)	
None of the	ingredients is listed.	

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· Other regulations, limitations and prohibitive regulations

 \cdot Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H280 Contains gas under pressure; may explode if heated.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- R20 Harmful by inhalation.
- R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitisation by inhalation and skin contact.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- : Flammable aerosols, Hazard Category 3
- Press. Gas: Gases under pressure: Compressed gas
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Resp. Sens. 1: Sensitisation Respirat., Hazard Category 2
- Skin Sens. 1: Sensitisation Kespirat., Hazard Category 1
- STOT SE 3: Specific target organ toxicity Single exposure, Hazard Category 3
- STOT RE 2: Specific target organ toxicity Repeated exposure, Hazard Category 2

• Sources SDS Prepared by:

ChemTel Inc.

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